

WHAT IS CLAIMED IS:

1. An assemblage of parts suited for planishing a joint in a generally planar structure including first and second broad surfaces, said assemblage of parts comprising:

B 5 a planishing hammer including a body, a hammer head, and driving means coupled to said body and to said head, for driving said hammer head in a fore-and-aft direction in a reciprocating manner over a range of travel
10 against said first broad surface of said planar structure;

a first magnet;

15 first magnet support means coupled to said body and to said first magnet, for supporting said first magnet at a fore-aft location adjacent said range of travel, which position is laterally displaced from said head relative to said fore-aft direction, whereby the magnetic field of said first magnet
20 penetrates said planar structure when said head is adjacent said first broad surface;

25 a second magnet adapted to be located on said second broad surface of said planar structure, and to be held in place against said second broad surface of said planar structure by said magnetic field of said first magnet; and

30 a backing piece adapted to be held against said second broad surface at said joint of said planar structure, at a location identified by the location of said second

magnet.

2. An assemblage of parts in accordance with claim 1, wherein said first magnet support means comprises an elongated rod extending in said fore-and-aft direction, and including fore and aft ends, said first rod terminating at said fore end at said first magnet;

B affixing means coupled to said body and said rod, said affixing means being affixed to said rod at a location lying between said fore and aft ends.

3. An assemblage according to claim 1, wherein said backing piece is a backing bar.

4. An assemblage according to claim 1, wherein said planar structure is such that a magnetic field applied to a first side produces a magnetic field on a second side thereof.

5. A method for planishing an elongated, visible joint in a generally planar structure including first and second broad surfaces, said method comprising the steps of:
5 procuring a kit of parts including
(a) a planishing hammer including a body including a hammer head and driving means coupled to said body and said head, for driving said hammer head in a fore-and-aft direction in
10 a reciprocating manner over a range of travel;

(b) a first magnet;

(c) first magnet support means
coupled to said body and to said first magnet,
for supporting said first magnet at a fore-aft
15 location generally adjacent said range of
travel, and laterally displaced from said head
relative to said fore-aft direction;

(d) a second magnet; and

(e) a backing piece;
20 said method further comprising the steps of
on a first side of said planar
structure adjacent said first broad surface,
holding said hammer with said head against said
joint on said first broad surface of said
25 planar structure, with said first magnet at a
location which is on a line orthogonal to the
direction of elongation of said joint at the
location of said head, whereby the magnetic
field of said first magnet penetrates said
30 planar structure to said second side thereof;

on a second side of said planar
structure adjacent said second broad surface,
placing said second magnet on said second
surface within said magnetic field of said
35 first magnet, whereby said second magnet is
attracted toward said first magnet;

placing said backing piece on said
second broad surface at a location on said
elongated joint at which a line extending from
40 said second magnet to said elongated joint
joins said joint orthogonally.

6. A method according to claim 5,
wherein said method further comprises, in said
procuring step, the further step of:

5 selecting the strength of said first
and second magnet in conjunction with at least
the thickness of said structure as measured
between said first and second broad surfaces,
in such a manner that said second magnet is
held against said second broad surface of said
10 planar structure by said magnetic field of said
first magnet.

7. A method according to claim 5,
wherein said method further comprises the step
of operating said hammer so that said head
strikes said joint on said first surface of
5 said structure.

8. A sensor arrangement for
providing an indication in one dimension of the
location of a hidden magnet, said sensor
comprising:

5 a set of a plurality of magnetic
sensors arrayed in a straight line in an array
direction to form an array of magnetic sensors,
each of which magnetic sensors is capable of
responding to the strength of a magnetic field
10 by adopting a particular value of an electrical
characteristic;

an indicator arrangement;
a source of electrical energy; and
control means coupled to said

15 magnetic sensors and to said indicator arrangement, for providing an indication of the position at which said magnetic field is greatest.

9. A sensor arrangement according to claim 8, wherein said source of electrical energy includes a battery.

10. A sensor arrangement according to claim 8, wherein said indicator arrangement comprises

5 a set including a plurality, no less in number than the number of said plurality of magnetic sensors, of electrically actuated indicators, said plurality of electrically actuated indicators being arrayed in a direction parallel to said array direction to
10 form an array of indicators, whereby said electrically actuated indicators provides an indication of the location along said array of magnetic sensors at which the magnetic field is greatest.

11. A sensor arrangement according to claim 10, wherein each of said electrically actuated indicators comprises a solid-state light emitter.

12. A sensor arrangement according to claim 11, wherein each said solid-state light emitters comprises a light-emitting

diode.

13. A sensor arrangement according to claim 11, wherein said solid-state light emitters comprises a laser.

14. A sensor arrangement according to claim 8, wherein each of said magnetic sensors includes a Hall-effect device.

15. A sensor arrangement according to claim 8, wherein said magnetic sensors include Giant Magneto-Resistive sensor.

16. A sensor arrangement according to claim 8, wherein:
the number of said plurality of said magnetic sensors in said set of magnetic sensors exceeds two; and
said control means comprises an array of electrical conductors, said array of electrical conductors including individual ones of said electrical conductors which are associated only with an individual one of said magnetic sensors and with a corresponding associated one of said indicators, for allowing the flow of current through said one of said magnetic sensors and said associated one of said indicators, but not through others of said magnetic sensors and indicators.

17. A sensor arrangement according

~~said control means comprises processing means coupled to said source of electrical energy, to said magnetic sensors, and to said indicator arrangement, for generating a signal indicative of the direction in which said backing bar should be moved.~~

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